

ipd4200matxtsvdTES-10

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

**Software Version Description (SVD) for
Textual Observation API Segment (MATXT)
of the
Tactical Environmental Support System Next Century
[TESS(NC)]
Meteorology and Oceanography (METOC) Database**

Document Version 4.2

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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the Textual Observation Application Program Interface (API) (MATXT) segment, Version 4.2 series, of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database. The MATXT segment provides APIs for the storage and retrieval of textual METOC observations and bulletins. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE), release 3.1, on a Hewlett-Packard computer running HP-UX 10.20 or a personal computer running the Microsoft Windows NT 4.0 operating system with Service Pack 3.

1.2 System Overview

The APIs described in this document form a portion of the METOC Database component of the TESS(NC) Program (Navy Integrated Tactical Environmental Subsystem (NITES) Version I). On 29 October 1996, the Oceanographer of the Navy issued a TESS Program Policy statement in letter 3140 Serial 961/6U570953, modifying the Program by calling for five seamless software versions that are DII COE compliant, preferably to level 5.

The five versions are:

- NITES Version I The local data fusion center and principal METOC analysis and forecast system (TESS(NC))
- NITES Version II The subsystem on the Joint Maritime Command Information System (JMCIS) or Global Command and Control System (GCCS) (NITES/Joint METOC Segment (JMS))
- NITES Version III The unclassified aviation forecast, briefing and display subsystem tailored to Naval METOC shore activities (currently satisfied by the Meteorological Integrated Data Display System (MIDDS))
- NITES Version IV The Portable subsystem composed of independent PCs/workstations and modules for forecaster, satellite, communications, and Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance (IC4ISR) functions (currently the Interim Mobile Oceanographic Support System (IMOSS))
- NITES Version V Foreign Military Sales (currently satisfied by the Allied Environmental Support System (AESS))

NITES I acquires and assimilates various METOC data for use by US Navy and Marine Corps weather forecasters and tactical planners. NITES I provides these users with METOC data, products, and applications necessary to support the warfighter in tactical operations and decision making. NITES I provides METOC data and products to NITES I and II applications, as well as non-TESS(NC) systems requiring METOC data, in a heterogeneous, networked computing environment.

The TESS(NC) Concept of Operations and system architecture require that the METOC Database be distributed both in terms of application access to METOC data and products and in terms of physical location of the data repositories. The organizational structure of the database is influenced by these requirements, and the components of this distributed database are described below.

In accordance with DII COE database concepts, the METOC Database is composed of six DII COE-compliant *shared database* segments. Associated with each shared database segment is an API segment. The segments are arranged by data type as follows:

<u>Data Type</u>	<u>Data Segment</u>	<u>API Segment</u>
Grid Fields	MDGRID	MAGRID
Latitude-Longitude-Time (LLT) Observations	MDLLT	MALLT
Textual Observations and Bulletins	MDTXT	MATXT
Remotely Sensed Data	MDREM	MAREM
Imagery	MDIMG	MAIMG
Climatology Data	MDCLIM	MACLIM

A typical client-server installation is depicted in Figure 1-1 on the next page. This shows the shared database segments residing on a DII COE SHADE database server, with a NITES I or II client machine hosting the API segments. Communication between API segments and shared database segments is accomplished over the network using ANSI-standard Structured Query Language (SQL).

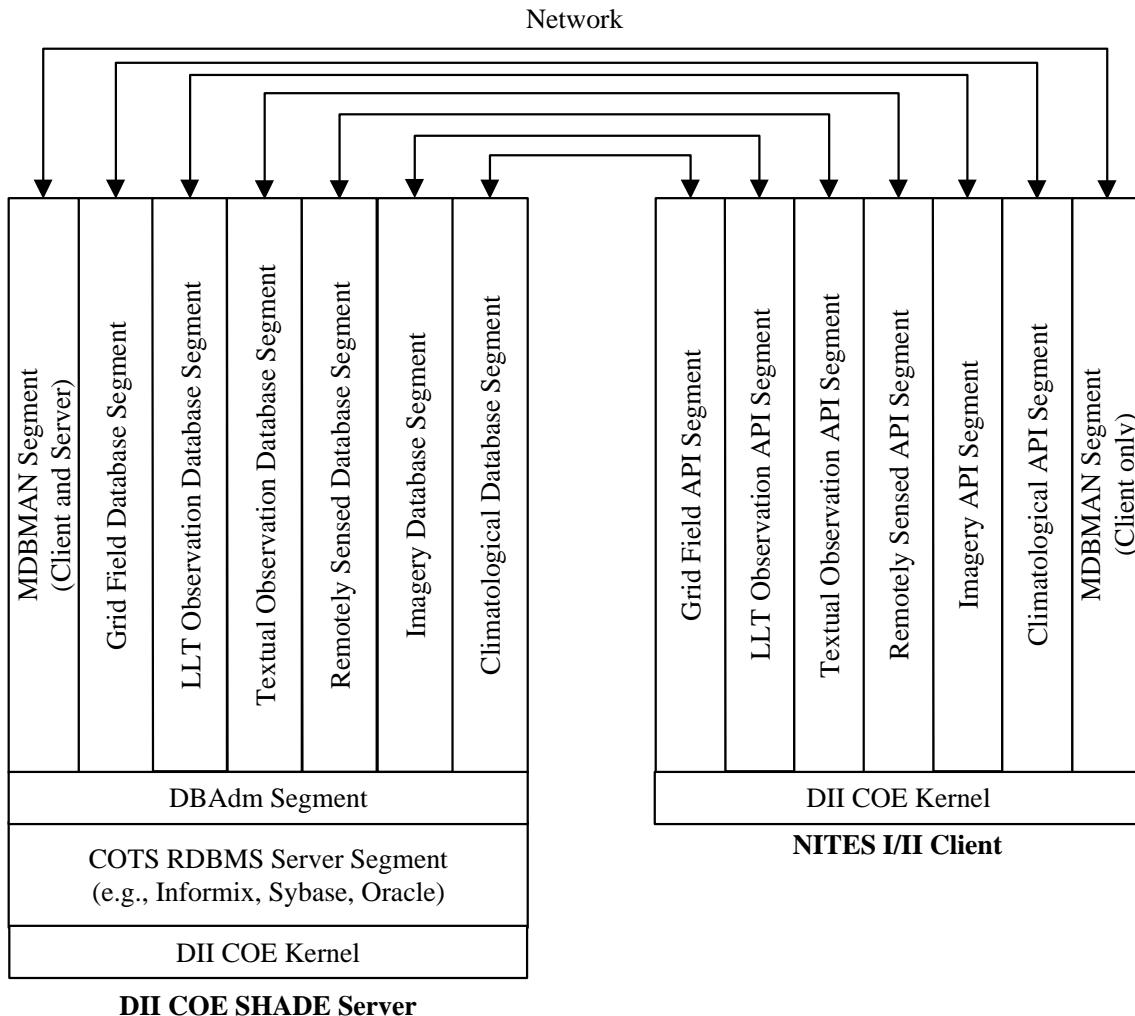


Figure 1-1. TESS(NC) METOC Database Conceptual Organization

The APIs in the MATXT segment deals with textual observations and bulletins. Textual observational data are primarily ASCII-formatted forecasts or bulletin/warning-oriented messages. Textual observation data can be associated with a specific geographic point and time, but more generally are associated with a geographical area or region. Types include Forecast Reports, Warnings, and Notices. Depending on the type of textual observation, the reporting station or organization and the area or region affected are decoded and stored along with the textual portion of the message. Textual observation data are typically displayed as text by a client application.

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software was performed at IPD's Middletown, RI facility prior to delivery of the software.

1.3.2 Product Restrictions

IPD's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov 1995).

1.3.3 Product Dependencies

The MATXT segment is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210)
- IBM-Compatible Personal Computer (PC)

The operating system requirements are:

- TAC-3/TAC-4: HP-UX 10.20
- PC: Windows NT 4.0 with Service Pack 3

The kernel requirements are:

- TAC-3/TAC-4: Kernel 3.0.1.0 with patches through P4
- PC: N/A

The following software must be properly installed prior to loading the MATXT segment:

- Appropriate operating system (as described above),
- Appropriate DII COE Kernel (as described above),
- DII COE Informix Connect Segment (INFXCN), version 1.0.1.0
- Textual Observation Database Segment (MDTXT) installed on a DII COE database server.

2 REFERENCED DOCUMENTS

2.1 Government Documents

Unnumbered 30 September 1997	<i>Database Design Description for the Tactical Environmental Support System/Next Century [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), Washington, DC
ipd4200ipmatxtTES-10 15 October 1998	<i>Installation Procedures (IP) for the Textual Observation API (MATXT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>
ipd4300matxtrmTES-10 15 October 1998	<i>Application Programming Interface Reference Manual (APIRM) for the Textual Observation API (MATXT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>
ipd4300matxtpmTES-10 15 October 1998	<i>Programming Manual (PM) for the Textual Observation API (MATXT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i>

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of materials released

All physical media and associated documentation for the MATXT segment are listed below.

- MATXT segment v4.2.0.0 (HP-UX) Installation Tape (4 mm DAT cartridge for TAC-3/ TAC-4 hardware)
- MATXT segment v4.2.0.0 (Windows NT) Installation diskette (3.5" High Density diskette, IBM format for Windows NT 4.0 with Service Pack 3)
- MATXT segment v4.2.0.0 APIRM, dated 15 October 1998
- MATXT segment v4.2.0.0 PM, dated 15 October 1998
- MATXT segment v4.2 series IP, dated 15 October 1998
- MATXT segment v4.2.0.0 SVD, dated 15 October 1998.

3.2 Inventory of Software Contents

A listing of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

A listing of changes installed since the latest Preliminary Release of the MATXT software is contained in Appendix B of this document.

3.4 Waivers

There are no waivers associated with this software.

3.5 Adaptation Data

There are no unique-to-site data contained in the MATXT 4.2.0.0 release.

3.6 Installation Instructions

The MATXT segment v4.1 IP)referenced in Section 2 of this document provides comprehensive installation instructions for the MATXT segment. The fully installed segment occupies approximately 1.89 MB of disk space on HP-UX machines and 2.75 MB on Windows NT machines. On TAC-3/TAC-4 machines, the software requires a minimum of 128 MB of RAM, with 192 MB recommended. On Windows NT machines, the software requires a minimum of 32 MB of RAM, with 128 MB recommended.

3.7 Possible Problems and Known Errors

Known problems and errors with the MATXT software are listed in Appendix C of this document.

4 NOTES

4.1 Glossary of Acronyms

AESS	Allied Environmental Support System
API	Application Program Interface
APIRM	API Reference Manual
COE	Common Operating Environment
DII	Defense Information Infrastructure
GCCS	Global Command and Control System
IC4ISR	Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance
IMOSS	Interim Mobile Oceanographic Support System
INFXCN	Informix Connect Segment
IP	Installation Procedures
JMCIS	Joint Maritime Command Information System
JMS	Joint METOC Segment
LLT	Latitude-Longitude-Time
MATXT	Textual Observation API Segment of the TESS(NC) METOC Database
MDXTXT	Textual Observation Database Segment of the TESS(NC) METOC Database
METOC	Meteorology and Oceanography
MIDDS	Meteorological Integrated Data Display System
NITES	Navy Integrated Tactical Environmental Subsystem
PC	Personal Computer

PM	Programming Manual
PTR	Program Trouble Report
SQL	Structured Query Language
SVD	Software Version Description
T&E	Test and Evaluation
TESS(NC)	Tactical Environmental Support System Next Century

Appendix A - List of Executables and Environment Files

A.1 File Structure for HP-UX Delivery

```
/h/MATXT
total 16
drwxr-xr-x  2 sysadmin COE      24 Oct  9 20:10 data
drwxrwxrwx  2 sysadmin COE    1024 Oct 13 23:10 include
drwxrwxrwx  2 sysadmin COE    1024 Oct 13 23:10 lib
drwxrwxrwx  2 sysadmin COE    1024 Oct 13 23:10 bin
drwxrwxrwx  2 sysadmin COE    1024 Oct 13 23:10 Scripts
drwxrwxrwx  3 sysadmin COE    1024 Oct 13 23:10 man
drwxrwxrwx  3 sysadmin COE    1024 Oct 13 23:10 Integ
drwxrwxr-x  2 313       COE   1024 Oct 14 00:38 SegDescrip

/h/MATXT/data
total 0

/h/MATXT/include
total 62
-r--r---  1 sysadmin COE    4932 Oct  9 20:10 MATXTCat.h
-r--r---  1 sysadmin COE     842  Oct  9 20:10 MATXTConst.h
-r--r---  1 sysadmin COE    1160 Oct  9 20:10 MATXTDef.h
-r--r---  1 sysadmin COE    1562 Oct  9 20:10 MATXTErr.h
-r--r---  1 sysadmin COE     758  Oct  9 20:10 MATXTExp.h
-r--r---  1 sysadmin COE    1095 Oct  9 20:10 MATXTAOI.h
-r--r---  1 sysadmin COE    1110 Oct  9 20:10 MATXTLL.h
-r--r---  1 sysadmin COE    1654 Oct  9 20:10 MATXTTypes.h
-r--r---  1 sysadmin COE    2543 Oct  9 20:10 MATXTMain.h
-r--r---  1 sysadmin COE    6005 Oct  9 20:10 MATXTProto.h
-r--r---  1 sysadmin COE    1573 Oct  9 20:10 MATXTRet.h
-r--r---  1 sysadmin COE     685  Oct  9 20:10 MATXTAPI.h
-r--r---  1 sysadmin COE    1090 Oct  9 20:10 MATXTMacros.h

/h/MATXT/lib
total 1328
-r--r---  1 sysadmin COE  670824 Oct  9 20:10 libMATXTAPI.a

/h/MATXT/bin
total 130
-r-xr-xr-x  1 sysadmin COE   65742 Oct  9 20:10 libMATXTAPI.sl

/h/MATXT/Scripts
total 0

/h/MATXT/man
total 2
drwxrwxrwx  2 sysadmin COE    1024 Oct 13 23:10 man3

/h/MATXT/Integ
total 4
-rw-rw-r--  1 313       COE     267  Oct  9 20:12 VSOutput
drwxrwxrwx  3 sysadmin COE    1024 Oct 13 23:10 TestSuite

/h/MATXT/SegDescrip
total 34
-rw-r---  1 313       COE     962  Oct  9 20:10 ReleaseNotes
```

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```
-rwxr-xr-x 1 313 COE 166 Oct 9 20:10 DEINSTALL
-rw-r--r-- 1 313 COE 495 Oct 9 20:10 SegName
-rwxr-xr-x 1 313 COE 1394 Oct 9 20:10 PostInstall
-rw-r--r-- 1 313 COE 184 Oct 9 20:10 VERSION
-rw-rw-r-- 1 313 COE 7929 Oct 9 20:12 FileAttrs
-rw-r--r-- 1 313 COE 493 Oct 13 22:56 SegInfo
-rw-rw-rw- 1 root COE 124 Oct 13 22:56 Validated
-rw-rw-rw- 1 root other 136 Oct 13 23:10 Installed
```

/h/MATXT/man/man3

```
total 68
-r--r--r-- 1 sysadmin COE 1984 Oct 9 20:10 MATXTConnect.3
-r--r--r-- 1 sysadmin COE 2370 Oct 9 20:10 MATXTDeleteByID.3
-r--r--r-- 1 sysadmin COE 1940 Oct 9 20:10 MATXTDisconnect.3
-r--r--r-- 1 sysadmin COE 2071 Oct 9 20:10 MATXTFreeLL.3
-r--r--r-- 1 sysadmin COE 2746 Oct 9 20:10 MATXTGetByQuery.3
-r--r--r-- 1 sysadmin COE 2809 Oct 9 20:10 MATXTCatalog.3
-r--r--r-- 1 sysadmin COE 2601 Oct 9 20:10 MATXTGetByID.3
-r--r--r-- 1 sysadmin COE 2196 Oct 9 20:10 MATXTSetConnection.3
-r--r--r-- 1 sysadmin COE 2418 Oct 9 20:10 MATXTIngest.3
-r--r--r-- 1 sysadmin COE 2684 Oct 9 20:10 MATXTRemoteConnect.3
-r--r--r-- 1 sysadmin COE 2179 Oct 9 20:10 MATXTRemoteDisconnect.3
-r--r--r-- 1 sysadmin COE 2871 Oct 9 20:10 MATXTUpdateByID.3
```

/h/MATXT/Integ/TestSuite

```
total 1724
-r-xr-xr-x 1 sysadmin COE 28848 Oct 9 20:10 MATXTBrowse_d
-r-xr-xr-x 1 sysadmin COE 45298 Oct 9 20:10 MATXTBrowse_l
-r-xr-xr-x 1 sysadmin COE 41167 Oct 9 20:10 MATXTtestCatalog_d
-r-xr-xr-x 1 sysadmin COE 69966 Oct 9 20:10 MATXTtestCatalog_l
-r-xr-xr-x 1 sysadmin COE 32962 Oct 9 20:10 MATXTtestConnect_d
-r-xr-xr-x 1 sysadmin COE 37084 Oct 9 20:10 MATXTtestConnect_l
-r-xr-xr-x 1 sysadmin COE 32956 Oct 9 20:11 MATXTtestDeleteByID_d
-r-xr-xr-x 1 sysadmin COE 61760 Oct 9 20:11 MATXTtestDeleteByID_l
-r-xr-xr-x 1 sysadmin COE 69966 Oct 9 20:11 MATXTtestGetByQuery_l
-r-xr-xr-x 1 sysadmin COE 41167 Oct 9 20:11 MATXTtestGetByQuery_d
-r-xr-xr-x 1 sysadmin COE 32959 Oct 9 20:11 MATXTtestGetByID_d
-r-xr-xr-x 1 sysadmin COE 61761 Oct 9 20:11 MATXTtestGetByID_l
-r-xr-xr-x 1 sysadmin COE 37068 Oct 9 20:11 MATXTtestIngest_d
-r-xr-xr-x 1 sysadmin COE 41172 Oct 9 20:11 MATXTtestUpdateByID_d
-r-xr-xr-x 1 sysadmin COE 69963 Oct 9 20:11 MATXTtestIngest_l
-r-xr-xr-x 1 sysadmin COE 69971 Oct 9 20:11 MATXTtestUpdateByID_l
-r-xr-xr-x 1 sysadmin COE 49430 Oct 9 20:11 MATXTtestDeleteByQuery_l
-r-xr-xr-x 1 sysadmin COE 41163 Oct 9 20:11 MATXTtestDeleteByQuery_d
-rw-rw-rw- 1 sysadmin COE 2688 Oct 9 20:11 MATXT_TEST README
drwxrwxrwx 10 sysadmin COE 1024 Oct 13 23:10 TESTDATA
```

/h/MATXT/Integ/TestSuite/TESTDATA

```
total 16
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 INGEST
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 CAT
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 GET
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 GETBYID
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 DELETE
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 STRINGFILE
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 UPDATE
drwxrwxrwx 2 sysadmin COE 1024 Oct 13 23:10 DELETEBYQUERY
```

/h/MATXT/Integ/TestSuite/TESTDATA/INGEST

```
total 82
-rw-rw-rw- 1 sysadmin COE 282 Oct 9 20:11 not_marine
```

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-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_other_y2k
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_guide
-rw-rw-rw-	1	sysadmin	COE	270	Oct	9 20:11	not_nuclear
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_ext
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_rivFld_world
-rw-rw-rw-	1	sysadmin	COE	282	Oct	9 20:11	not_testMsg_world
-rw-rw-rw-	1	sysadmin	COE	279	Oct	9 20:11	for_icebg_NPole
-rw-rw-rw-	1	sysadmin	COE	270	Oct	9 20:11	not_prodGenDelay
-rw-rw-rw-	1	sysadmin	COE	264	Oct	9 20:11	warn_sevThundr
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_local_y2k
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_misc
-rw-rw-rw-	1	sysadmin	COE	270	Oct	9 20:11	not_warnOrCancel
-rw-rw-rw-	1	sysadmin	COE	264	Oct	9 20:11	warn_tornUSAF
-rw-rw-rw-	1	sysadmin	COE	280	Oct	9 20:11	for_othShip_world
-rw-rw-rw-	1	sysadmin	COE	281	Oct	9 20:11	srf_misc_equator
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_tropCycDis
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_rws
-rw-rw-rw-	1	sysadmin	COE	271	Oct	9 20:11	srf_seaIce_SPole
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_sum
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_tropCycSIG
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_tropCycAdv
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_tmpExt
-rw-rw-rw-	1	sysadmin	COE	265	Oct	9 20:11	srf_snoDep
-rw-rw-rw-	1	sysadmin	COE	261	Oct	9 20:11	warn_tropCycTyph_point
-rw-rw-rw-	1	sysadmin	COE	264	Oct	9 20:11	warn_tsnuami
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_ua_equator
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_SIGMET
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_volAshSIG
-rw-rw-rw-	1	sysadmin	COE	278	Oct	9 20:11	for_volAsh
-rw-rw-rw-	1	sysadmin	COE	267	Oct	9 20:11	warn_airSig
-rw-rw-rw-	1	sysadmin	COE	282	Oct	9 20:11	x_bad_area
-rw-rw-rw-	1	sysadmin	COE	279	Oct	9 20:11	ua_misc
-rw-rw-rw-	1	sysadmin	COE	273	Oct	9 20:11	for_wtrSprts
-rw-rw-rw-	1	sysadmin	COE	264	Oct	9 20:11	warn_milUSAF
-rw-rw-rw-	1	sysadmin	COE	286	Oct	9 20:11	warn_hiSeasUSAF_dateLine
-rw-rw-rw-	1	sysadmin	COE	317	Oct	9 20:11	x_bad_time
-rw-rw-rw-	1	sysadmin	COE	282	Oct	9 20:11	not_METNOWIFMA_world
-rw-rw-rw-	1	sysadmin	COE	281	Oct	9 20:11	x_bad_type
-rw-rw-rw-	1	sysadmin	COE	267	Oct	9 20:11	not_hydro_equator
-rw-rw-rw-	1	sysadmin	COE	285	Oct	9 20:11	warn_miscUSAF

/h/MATXT/Integ/TestSuite/TESTDATA/CAT

total 20

-rw-rw-rw-	1	sysadmin	COE	207	Oct	9 20:11	receipt_ftp
-rw-rw-rw-	1	sysadmin	COE	223	Oct	9 20:11	srf_equator
-rw-rw-rw-	1	sysadmin	COE	243	Oct	9 20:11	warn_world
-rw-rw-rw-	1	sysadmin	COE	317	Oct	9 20:11	x_bad_time
-rw-rw-rw-	1	sysadmin	COE	205	Oct	9 20:11	all_forecast
-rw-rw-rw-	1	sysadmin	COE	226	Oct	9 20:11	lat_lon
-rw-rw-rw-	1	sysadmin	COE	225	Oct	9 20:11	x_lat_lon
-rw-rw-rw-	1	sysadmin	COE	208	Oct	9 20:11	site_KUUU
-rw-rw-rw-	1	sysadmin	COE	256	Oct	9 20:11	upper_air
-rw-rw-rw-	1	sysadmin	COE	227	Oct	9 20:11	world_ftp

/h/MATXT/Integ/TestSuite/TESTDATA/GET

total 28

-rw-rw-rw-	1	sysadmin	COE	205	Oct	9 20:11	all_warnings
-rw-rw-rw-	1	sysadmin	COE	223	Oct	9 20:11	not_equator
-rw-rw-rw-	1	sysadmin	COE	189	Oct	9 20:11	warn_point
-rw-rw-rw-	1	sysadmin	COE	205	Oct	9 20:11	all_notices
-rw-rw-rw-	1	sysadmin	COE	224	Oct	9 20:11	for_NPole

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```
-rw-rw-rw- 1 sysadmin COE      225 Oct  9 20:11 srf_SPole
-rw-rw-rw- 1 sysadmin COE      205 Oct  9 20:11 all_forecasts
-rw-rw-rw- 1 sysadmin COE      223 Oct  9 20:11 warn_y2k
-rw-rw-rw- 1 sysadmin COE      205 Oct  9 20:11 all_upper_air
-rw-rw-rw- 1 sysadmin COE      205 Oct  9 20:11 all_surface
-rw-rw-rw- 1 sysadmin COE      263 Oct  9 20:11 for_ext_match
-rw-rw-rw- 1 sysadmin COE      263 Oct  9 20:11 upper_air_match
-rw-rw-rw- 1 sysadmin COE      245 Oct  9 20:11 for_y2k
-rw-rw-rw- 1 sysadmin COE      226 Oct  9 20:11 warn_dateLine
```

/h/MATXT/Integ/TestSuite/TESTDATA/GETBYID

total 14

```
-rw-rw-rw- 1 sysadmin COE      13 Oct  9 20:11 getId200
-rw-rw-rw- 1 sysadmin COE      12 Oct  9 20:11 getId21
-rw-rw-rw- 1 sysadmin COE      12 Oct  9 20:11 getId-6
-rw-rw-rw- 1 sysadmin COE      12 Oct  9 20:11 getId23
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 getId9
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 getId4
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 getId5
```

/h/MATXT/Integ/TestSuite/TESTDATA/DELETE

total 16

```
-rw-rw-rw- 1 sysadmin COE      13 Oct  9 20:11 delete101
-rw-rw-rw- 1 sysadmin COE      13 Oct  9 20:11 delete-67
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 delete4
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 delete7
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 delete1
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 delete8
-rw-rw-rw- 1 sysadmin COE      12 Oct  9 20:11 delete17
-rw-rw-rw- 1 sysadmin COE      11 Oct  9 20:11 delete5
```

/h/MATXT/Integ/TestSuite/TESTDATA/STRINGFILE

total 10

```
-rw-rw-rw- 1 sysadmin COE      191 Oct  9 20:11 longString
-rw-rw-rw- 1 sysadmin COE      46 Oct  9 20:11 sf2
-rw-rw-rw- 1 sysadmin COE      46 Oct  9 20:11 sf4
-rw-rw-rw- 1 sysadmin COE      46 Oct  9 20:11 sf8
-rw-rw-rw- 1 sysadmin COE      46 Oct  9 20:11 sf6
```

/h/MATXT/Integ/TestSuite/TESTDATA/UPDATE

total 10

```
-rw-rw-rw- 1 sysadmin COE      303 Oct  9 20:11 update_all
-rw-rw-rw- 1 sysadmin COE      293 Oct  9 20:11 qual_end_NSWE_15
-rw-rw-rw- 1 sysadmin COE      317 Oct  9 20:11 x_bad_time
-rw-rw-rw- 1 sysadmin COE      298 Oct  9 20:11 x_bad_recno
-rw-rw-rw- 1 sysadmin COE      296 Oct  9 20:11 sub_report_S_1
```

/h/MATXT/Integ/TestSuite/TESTDATA/DELETEBYQUERY

total 20

```
-rw-rw-rw- 1 sysadmin COE      207 Oct  9 20:11 receipt_ftp_d
-rw-rw-rw- 1 sysadmin COE      223 Oct  9 20:11 srf_equator_d
-rw-rw-rw- 1 sysadmin COE      243 Oct  9 20:11 warn_world_d
-rw-rw-rw- 1 sysadmin COE      317 Oct  9 20:11 x_bad_time_d
-rw-rw-rw- 1 sysadmin COE      205 Oct  9 20:11 all_forecast_d
-rw-rw-rw- 1 sysadmin COE      226 Oct  9 20:11 lat_lon_d
-rw-rw-rw- 1 sysadmin COE      225 Oct  9 20:11 x_lat_lon_d
-rw-rw-rw- 1 sysadmin COE      208 Oct  9 20:11 site_KUUU_d
-rw-rw-rw- 1 sysadmin COE      256 Oct  9 20:11 upper_air_d
-rw-rw-rw- 1 sysadmin COE      227 Oct  9 20:11 world_ftp_d
```

A.2 File Structure for Windows NT Delivery

```
\h\MATXT
total 13
drwxr-xr-x  5 0  everyone      0  Oct  05 17:03 Integ
drwxr-xr-x 11 0  everyone      0  Oct  05 17:03 SegDescrip
drwxr-xr-x  6 0  everyone      0  Oct  05 17:04 bin
drwxr-xr-x  5 0  everyone      0  Oct  05 17:04 lib
drwxr-xr-x 17 0  everyone      0  Oct  05 17:04 include
drwxr-xr-x  5 0  everyone      0  Oct  05 17:04 man
-rw-r--r--  1 0  everyone  25317  Oct  05 17:05 Uninst.isu

\h\MATXT\INTEG
total 0
drwxr-xr-x 34 0  everyone      0  Oct  05 17:03 TestSuite

\h\MATXT\SegDescrip
total 10
-rw-r--r--  1 0  everyone    495  Apr  02 1998 segname
-rwxr-xr-x  1 0  everyone   184  Jun  05 11:56 deinstall.bat
-rw-r--r--  1 0  everyone  7482  Jun 11 08:52 fileattribs.txt
-rwxr-xr-x  1 0  everyone   297  Jun 11 09:03 postinstall.bat
-rw-r--r--  1 0  everyone   494  Jul  02 08:06 seginfo.txt
-rw-r--r--  1 0  everyone   962  Sep 25 10:26 releasenotes
-rw-r--r--  1 0  everyone   184  Oct  01 08:12 version

\h\MATXT\bin
total 34
-rw-r--r--  1 0  everyone  31408  Oct  02 10:28 matxtapi.lib
-rw-r--r--  1 0  everyone  36352  Oct  02 10:28 matxtapi.dll

\h\MATXT\lib
total 38
-rw-r--r--  1 0  everyone  75780  Oct  02 10:31 matxtapi.lib

\h\MATXT\include
total 18
-rw-r--r--  1 0  everyone  1095  Nov  20 1997 matxtaoi.h
-rw-r--r--  1 0  everyone  1110  Nov  20 1997 matxtll.h
-rw-r--r--  1 0  everyone   685  Nov  20 1997 matxtapi.h
-rw-r--r--  1 0  everyone  2543  Feb  20 1998 matxtmain.h
-rw-r--r--  1 0  everyone   758  Mar  20 1998 matxtexp.h
-rw-r--r--  1 0  everyone  1562  Mar  20 1998 matxterr.h
-rw-r--r--  1 0  everyone  1090  Mar  20 1998 matxtmacros.h
-rw-r--r--  1 0  everyone  1573  Mar  20 1998 matxtret.h
-rw-r--r--  1 0  everyone   842  Jun  11 08:45 matxtconst.h
-rw-r--r--  1 0  everyone  1160  Sep  21 07:38 matxtdef.h
-rw-r--r--  1 0  everyone  1654  Sep  21 07:52 matxttypes.h
-rw-r--r--  1 0  everyone  6005  Sep  23 10:57 matxtproto.h
-rw-r--r--  1 0  everyone  4932  Sep  24 15:07 matxtcat.h

\h\MATXT\man
total 0
drwxr-xr-x 16 0  everyone      0  Oct  05 17:04 man3

\h\MATXT\man\man3
total 22
-rw-r--r--  1 0  everyone  1984  Sep  25 09:53 matxtconnect.3
-rw-r--r--  1 0  everyone  1940  Sep  25 09:53 matxtdisconnect.3
```

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-rw-r--r--	1 0	everyone	2071	Sep 25 09:54	matxtfreell.3
-rw-r--r--	1 0	everyone	2684	Sep 25 09:54	matxtremoteconnect.3
-rw-r--r--	1 0	everyone	2179	Sep 25 09:54	matxtremotedisconnect.3
-rw-r--r--	1 0	everyone	2196	Sep 25 09:54	matxtsetconnection.3
-rw-r--r--	1 0	everyone	2809	Oct 01 08:16	matxtcatalog.3
-rw-r--r--	1 0	everyone	2370	Oct 01 08:17	matxtdeletebyid.3
-rw-r--r--	1 0	everyone	2601	Oct 01 08:18	matxtgetbyid.3
-rw-r--r--	1 0	everyone	2746	Oct 01 08:18	matxtgetbyquery.3
-rw-r--r--	1 0	everyone	2418	Oct 01 08:18	matxtingest.3
-rw-r--r--	1 0	everyone	2871	Oct 01 08:18	matxtupdatebyid.3

\h\MATXT\Integ\TestSuite

total 1365

-rw-r--r--	1 0	everyone	2688	Apr 02 1998	matxt_test.readme
-rwxr-xr-x	1 0	everyone	16164	Oct 02 10:31	matxtbrowse_d.exe
-rwxr-xr-x	1 0	everyone	194108	Oct 02 10:32	matxtbrowse_l.exe
-rwxr-xr-x	1 0	everyone	59876	Oct 02 10:32	matxttestcatalog_d.exe
-rwxr-xr-x	1 0	everyone	258788	Oct 02 10:32	matxttestcatalog_l.exe
-rwxr-xr-x	1 0	everyone	48920	Oct 02 10:33	matxttestconnect_d.exe
-rwxr-xr-x	1 0	everyone	202152	Oct 02 10:33	matxttestconnect_l.exe
-rwxr-xr-x	1 0	everyone	48772	Oct 02 10:33	matxttestdeletebyid_d.exe
-rwxr-xr-x	1 0	everyone	246200	Oct 02 10:33	matxttestdeletebyid_l.exe
-rwxr-xr-x	1 0	everyone	59380	Oct 02 10:34	matxttestgetbyquery_d.exe
-rwxr-xr-x	1 0	everyone	257788	Oct 02 10:34	matxttestgetbyquery_l.exe
-rwxr-xr-x	1 0	everyone	50816	Oct 02 10:34	matxttestgebyid_d.exe
-rwxr-xr-x	1 0	everyone	247696	Oct 02 10:35	matxttestgebyid_l.exe
-rwxr-xr-x	1 0	everyone	56784	Oct 02 10:35	matxttestingest_d.exe
-rwxr-xr-x	1 0	everyone	260192	Oct 02 10:35	matxttestingest_l.exe
-rwxr-xr-x	1 0	everyone	61960	Oct 02 10:35	matxttestupdatebyid_d.exe
-rwxr-xr-x	1 0	everyone	264616	Oct 02 10:36	matxttestupdatebyid_l.exe
-rwxr-xr-x	1 0	everyone	57704	Oct 02 10:36	matxttestdeletebyquery_d.exe
-rwxr-xr-x	1 0	everyone	236544	Oct 02 10:36	matxttestdeletebyquery_l.exe
drwxr-xr-x	12 0	everyone	0	Oct 05 17:04	TestData
-rw-r--r--	1 0	everyone	4260	Oct 13 17:16	ingest
-rw-r--r--	1 0	everyone	18121	Oct 13 17:28	cat
-rw-r--r--	1 0	everyone	18121	Oct 13 17:28	catl
-rw-r--r--	1 0	everyone	3281	Oct 13 17:36	id
-rw-r--r--	1 0	everyone	3281	Oct 13 17:36	idl
-rw-r--r--	1 0	everyone	41041	Oct 13 17:37	query
-rw-r--r--	1 0	everyone	41041	Oct 13 17:40	queryl
-rw-r--r--	1 0	everyone	1310	Oct 13 17:40	del
-rw-r--r--	1 0	everyone	1663	Oct 13 17:41	dell
-rw-r--r--	1 0	everyone	4796	Oct 13 17:42	delq

\h\MATXT\INTEG\TestSuite\TESTDATA

total 0

drwxr-xr-x	12 0	everyone	0	Oct 05 17:04	Delete
drwxr-xr-x	14 0	everyone	0	Oct 05 17:04	Cat
drwxr-xr-x	18 0	everyone	0	Oct 05 17:04	Get
drwxr-xr-x	45 0	everyone	0	Oct 05 17:04	Ingest
drwxr-xr-x	11 0	everyone	0	Oct 05 17:04	GetByID
drwxr-xr-x	9 0	everyone	0	Oct 05 17:04	StringFile
drwxr-xr-x	9 0	everyone	0	Oct 05 17:04	Update
drwxr-xr-x	14 0	everyone	0	Oct 05 17:04	DeleteByQuery

\h\MATXT\INTEG\TestSuite\TESTDATA\DELETE

total 8

-rw-r--r--	1 0	everyone	11	Apr 02 1998	delete1
-rw-r--r--	1 0	everyone	13	Apr 02 1998	delete101
-rw-r--r--	1 0	everyone	12	Apr 02 1998	delete17
-rw-r--r--	1 0	everyone	11	Apr 02 1998	delete4

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-rw-r--r--	1	0	everyone	11	Apr 02	1998	delete5
-rw-r--r--	1	0	everyone	13	Apr 02	1998	delete-67
-rw-r--r--	1	0	everyone	11	Apr 02	1998	delete7
-rw-r--r--	1	0	everyone	11	Apr 02	1998	delete8
 \h\MATXT\INTEG\TestSuite\TESTDATA\CAT							
total 10							
-rw-r--r--	1	0	everyone	205	Sep 25	08:56	all_forecast
-rw-r--r--	1	0	everyone	207	Sep 25	08:57	receipt_ftp
-rw-r--r--	1	0	everyone	223	Sep 25	08:57	srf_equator
-rw-r--r--	1	0	everyone	317	Sep 25	08:57	x_bad_time
-rw-r--r--	1	0	everyone	243	Sep 25	08:57	warn_world
-rw-r--r--	1	0	everyone	226	Sep 25	08:58	lat_lon
-rw-r--r--	1	0	everyone	208	Sep 25	08:58	site_kuuu
-rw-r--r--	1	0	everyone	256	Sep 25	08:58	upper_air
-rw-r--r--	1	0	everyone	227	Sep 25	08:58	world_ftp
-rw-r--r--	1	0	everyone	225	Sep 25	08:58	x_lat_lon
 \h\MATXT\INTEG\TestSuite\TESTDATA\GET							
total 14							
-rw-r--r--	1	0	everyone	205	Sep 25	09:14	all_forecasts
-rw-r--r--	1	0	everyone	205	Sep 25	09:14	all_warnings
-rw-r--r--	1	0	everyone	223	Sep 25	09:14	not_equator
-rw-r--r--	1	0	everyone	189	Sep 25	09:14	warn_point
-rw-r--r--	1	0	everyone	205	Sep 25	09:15	all_notices
-rw-r--r--	1	0	everyone	224	Sep 25	09:15	for_npole
-rw-r--r--	1	0	everyone	225	Sep 25	09:15	srf_spole
-rw-r--r--	1	0	everyone	223	Sep 25	09:15	warn_y2k
-rw-r--r--	1	0	everyone	205	Sep 25	09:15	all_surface
-rw-r--r--	1	0	everyone	263	Sep 25	09:15	for_ext_match
-rw-r--r--	1	0	everyone	263	Sep 25	09:16	upper_air_match
-rw-r--r--	1	0	everyone	205	Sep 25	09:16	all_upper_air
-rw-r--r--	1	0	everyone	245	Sep 25	09:16	for_y2k
-rw-r--r--	1	0	everyone	226	Sep 25	09:16	warn_dateline
 \h\MATXT\INTEG\TestSuite\TESTDATA\INGEST							
total 41							
-rw-r--r--	1	0	everyone	273	Apr 02	1998	for_wtrsprts
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_tropcycadv
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_ua_equator
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_volash
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_ext
-rw-r--r--	1	0	everyone	282	Apr 02	1998	not_marine
-rw-r--r--	1	0	everyone	282	Apr 02	1998	not_metnowifma_world
-rw-r--r--	1	0	everyone	270	Apr 02	1998	not_nuclear
-rw-r--r--	1	0	everyone	270	Apr 02	1998	not_prodgendelay
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_guide
-rw-r--r--	1	0	everyone	267	Apr 02	1998	not_hydro_equator
-rw-r--r--	1	0	everyone	279	Apr 02	1998	for_icebg_npole
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_local_y2k
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_misc
-rw-r--r--	1	0	everyone	280	Apr 02	1998	for_othship_world
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_rws
-rw-r--r--	1	0	everyone	278	Apr 02	1998	for_tmpext
-rw-r--r--	1	0	everyone	285	Apr 02	1998	warn_tropcycdis
-rw-r--r--	1	0	everyone	285	Apr 02	1998	warn_tropcycsig
-rw-r--r--	1	0	everyone	285	Apr 02	1998	warn_sigmet
-rw-r--r--	1	0	everyone	281	Apr 02	1998	x_bad_type
-rw-r--r--	1	0	everyone	285	Apr 02	1998	warn_volashsig
-rw-r--r--	1	0	everyone	282	Apr 02	1998	x_bad_area
-rw-r--r--	1	0	everyone	264	Apr 02	1998	warn_tsnuami

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-rw-r--r--	1 0	everyone	282	Apr 02	1998	not_testmsg_world
-rw-r--r--	1 0	everyone	264	Apr 02	1998	warn_sevthundr
-rw-r--r--	1 0	everyone	281	Apr 02	1998	srf_misc_equator
-rw-r--r--	1 0	everyone	271	Apr 02	1998	srf_seaice_spole
-rw-r--r--	1 0	everyone	265	Apr 02	1998	srf_snodedep
-rw-r--r--	1 0	everyone	279	Apr 02	1998	ua_misc
-rw-r--r--	1 0	everyone	267	Apr 02	1998	warn_airsig
-rw-r--r--	1 0	everyone	286	Apr 02	1998	warn_hiseasusaf_dateline
-rw-r--r--	1 0	everyone	264	Apr 02	1998	warn_milusaf
-rw-r--r--	1 0	everyone	285	Apr 02	1998	warn_miscusaf
-rw-r--r--	1 0	everyone	285	Apr 02	1998	warn_other_y2k
-rw-r--r--	1 0	everyone	285	Apr 02	1998	warn_rivfld_world
-rw-r--r--	1 0	everyone	270	Apr 02	1998	not_warnorcancel
-rw-r--r--	1 0	everyone	261	Apr 02	1998	warn_tropcyctyph_point
-rw-r--r--	1 0	everyone	285	Apr 02	1998	warn_sum
-rw-r--r--	1 0	everyone	264	Apr 02	1998	warn_tornusaf
-rw-r--r--	1 0	everyone	317	Sep 25	08:57	x_bad_time

\h\MATXT\INTEG\TestSuite\TESTDATA\GETBYID

total 7

-rw-r--r--	1 0	everyone	11	Apr 02	1998	getid4
-rw-r--r--	1 0	everyone	12	Apr 02	1998	getid21
-rw-r--r--	1 0	everyone	12	Apr 02	1998	getid23
-rw-r--r--	1 0	everyone	13	Apr 02	1998	getid200
-rw-r--r--	1 0	everyone	11	Apr 02	1998	getid5
-rw-r--r--	1 0	everyone	12	Apr 02	1998	getid-6
-rw-r--r--	1 0	everyone	11	Apr 02	1998	getid9

\h\MATXT\INTEG\TestSuite\TESTDATA\StringFile

total 5

-rw-r--r--	1 0	everyone	46	Apr 02	1998	sf8
-rw-r--r--	1 0	everyone	46	Apr 02	1998	sf2
-rw-r--r--	1 0	everyone	46	Apr 02	1998	sf4
-rw-r--r--	1 0	everyone	46	Apr 02	1998	sf6
-rw-r--r--	1 0	everyone	191	Apr 02	1998	longstring

\h\MATXT\INTEG\TestSuite\TESTDATA\Update

total 5

-rw-r--r--	1 0	everyone	293	Apr 02	1998	qual_end_nswe_15
-rw-r--r--	1 0	everyone	296	Apr 02	1998	sub_report_s_1
-rw-r--r--	1 0	everyone	303	Apr 02	1998	update_all
-rw-r--r--	1 0	everyone	298	Apr 02	1998	x_bad_recno
-rw-r--r--	1 0	everyone	317	Sep 25	08:57	x_bad_time

\h\MATXT\INTEG\TestSuite\TESTDATA\DeleteByQuery

total 10

-rw-r--r--	1 0	everyone	205	Sep 25	09:25	all_forecast_d
-rw-r--r--	1 0	everyone	207	Sep 25	09:25	receipt_ftp_d
-rw-r--r--	1 0	everyone	223	Sep 25	09:25	srf_equator_d
-rw-r--r--	1 0	everyone	243	Sep 25	09:25	warn_world_d
-rw-r--r--	1 0	everyone	317	Sep 25	09:25	x_bad_time_d
-rw-r--r--	1 0	everyone	226	Sep 25	09:25	lat_lon_d
-rw-r--r--	1 0	everyone	208	Sep 25	09:25	site_kuuu_d
-rw-r--r--	1 0	everyone	256	Sep 25	09:25	upper_air_d
-rw-r--r--	1 0	everyone	227	Sep 25	09:26	world_ftp_d
-rw-r--r--	1 0	everyone	225	Sep 25	09:26	x_lat_lon_d

Appendix B - Changes/Updates Since Preliminary Release

This release made the following changes:

Pri	PTR #	Summary
2	52	The extern C statement created by makeproto should be extern "C" with the double quotes. The quotes are missing.
2	92	DII COE requires minimal permission settings for segment directories/files.
3	68	Update function does not work as specified.
3	93	<SegmentPrefix>Def.h file should not #define __stdcall.
3	216	Assigned Need to query on receipt time range.
4	53	Syntax of the extern C statement incorrect in MATXTDef.h.
4	54	Assigned Create a new API to support the purge requirements.
4	55	Assigned Add a new API to support purge/archive requirements.
4	125	Update function not updating the quality indicator field.
4	198	Assigned Add fields for TypeString and SubTypeString to the MATXTCATDATA structure.
4	207	Assigned Incorporate the MATXTBrowse into MATXT segment as a new API.

Appendix C - Known Problems and Errors

Pri	PTR #	Summary
3	64	The get diagnostics informix call returns the wrong message length on the NT and a "%s" in the string on the HPUX (But correct length). On the NT the "%s" is expanded to the variable that it represents.
4	54	Create a new API to support the purge requirements.
4	55	Add a new API to support purge/archive requirements.

A detailed Program Trouble Report (PTR) is contained on the following pages.

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